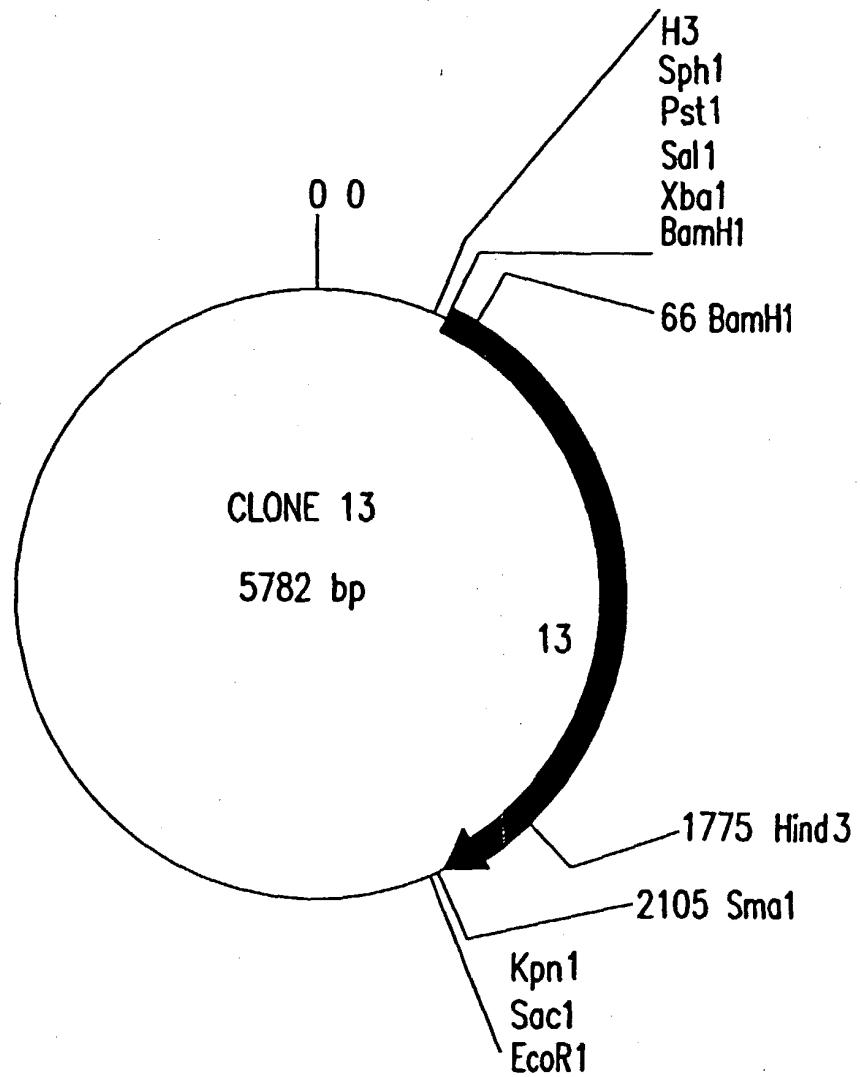


COMMENTS/REFERENCES: 52=3' SIDE OF S5 (AtMSH3) 1244bp IN pUC18/Sma1

FIG.2



COMMENTS/REFERENCES: 13=3' SIDE OF S5 (AtMSH3) 2104bp IN pUC18/Sma1

FIG.3

1225	CAT	ACA	ATT	ATG	AAC	ATG	CCA	CAT	CTG	ACT	GTT	CAA	GCC	CTC	GCC	CTA	ACG	TTT	TGC	CAT	1284	
376	H	T	I	M	N	M	P	H	L	T	V	Q	A	L	T	F	C	H			395	
1285	CTC	AAA	CAG	TTT	GGA	TTT	GAA	AGG	ATC	CTT	TAC	CAA	GGG	GCC	TCA	TTT	CGC	TCT	TTG	TCA	1344	
396	L	K	Q	F	G	F	E	R	I	L	Y	Q	G	A	S	F	R	S	L	S	415	
1245	AGT	AAC	ACA	GAG	ATG	ACT	CTC	TCA	GCC	AAT	ACT	CTG	CAA	CAG	TTG	GAG	GTT	GTG	AAA	AAT	1404	
416	S	N	T	E	M	M	T	L	S	A	N	T	L	Q	Q	L	E	V	V	K	N	435
1405	AAT	TCA	GAT	GGA	TCG	GAA	TCT	GCC	TCC	TTA	TTC	CAT	AAT	ATG	AAT	CAC	ACA	CTT	ACA	GTA	1464	
436	N	S	D	G	S	E	S	G	S	L	F	H	N	M	N	H	T	L	T	V	455	
1465	TAT	GCT	TCC	AGG	CTT	CTT	AGA	CAC	TGG	GTG	ACT	CAT	CCT	CTA	TGC	GAT	AGA	AAT	TTG	ATA	1524	
456	Y	A	S	R	L	L	R	H	W	V	T	H	P	L	C	D	R	N	L	I	475	
1525	TCT	GCT	CGG	CTT	GAT	GCT	GTT	TCT	GAG	ATT	TCT	GCT	TGC	ATG	GGA	TCT	CAT	AGT	TCT	TCC	1584	
476	S	A	R	L	D	A	V	S	E	I	S	A	C	M	G	S	H	S	S	S	495	
1585	CAG	CTC	AGC	AGT	GAG	TTG	GTT	GAA	GAA	GGT	TCT	GAG	AGA	GCA	ATT	GTA	TCA	CCT	GAG	TTT	1644	
496	Q	L	S	S	E	L	V	E	E	G	S	E	R	A	I	V	S	P	E	F	515	
1645	TAT	CTC	GTG	CTC	TCC	TCA	GTC	TTG	ACA	GCT	ATG	TCT	AGA	TCA	TCT	GAT	ATT	CAA	CGT	GGA	1704	
516	Y	L	V	S	S	V	L	T	A	M	S	R	S	D	I	Q	R	G		F	535	
1705	ATA	ACA	AGA	ATC	TTT	CAT	CGG	ACT	GCT	AAA	GCC	ACA	GAG	TTC	ATT	GCA	GTT	ATG	GAA	GCT	1764	
536	I	T	R	I	F	H	R	T	A	K	A	T	E	F	I	A	V	M	E	A	555	
1765	ATT	TTA	CTT	GCG	GGG	AAG	CAA	ATT	CAG	CGG	CTT	GGC	ATA	AAG	CAA	GAC	TCT	GAA	ATG	AGG	1824	
556	I	L	L	A	G	K	Q	I	Q	R	L	G	I	K	Q	D	S	E	M	R	575	

FIG. 4C

1825 576	AGT ATG CAA TCT GCA ACT GTG CGA TCT ACT CTT TTG AGA AAA TTG ATT TCT GTT ATT TCA S M Q S A T V R S T L L R K L I S V I S	1884 595
1885 596	TCC CCT GTT GTG GTT GAC AAT GCC GGA AAA CTT CTC TCT GCC CTA AAT AAG GAA GCG GCT S P V V D N A G K L L S A L N K E A A	1944 615
1945 616	GTT CGA GGT GAC TTG CTC GAC ATA CTA ATC ACT TCC AGC GAC CAA TTT CCT GAG CTT GCT V R G D L L D I L I T S S D Q F P E L A	2004 635
2005 636	GAA GCT CGC CAA GCA GCA GTT TTA GTC ATC AGG GAA AAG CTG GAT TCC TCG ATA GCT TCA TTT E A R Q A V L V I R E K L D S S I A S F	2064 655
2065 656	CGC AAG AAG CTC GCT ATT CGA AAT TTG GAA TTT CTT CAA GTG TCG GGG ATC ACA CAT TTG R K K L A I R N L E F L Q V S G I T H L	2124 675
2125 676	ATA GAG CTG CCC GTT GAT TCC AAG GTC CCT ATG AAT <u>TGG</u> GTG AAA GTA AAT AGC ACC AAG I E L P V D S K V P M N W V K V N S T K	2184 695
2185 696	AAG ACT ATT CGA TAT CAT CCC CCA GAA ATA GTA GCT GGC TTG GAT GAG CTA GCT CTA GCA K T I R Y H P E I V A G L D E L A L A	2244 715
2245 716	ACT GAA CAT CTT GCC ATT GTG AAC CGA GCT TCG TGG GAT AGT TTC CTC AAG AGT TTC AGT T E H L A I V N R A S W D S F L K S F S	2304 735
2305 736	AGA TAC TAC ACA GAT TTT AAG GCT GCC GTT CAA GCT CTT GCT GCA CTG GAC TGT TTG CAC R Y T D F K A V Q A L A L D C L H	2364 755
2365 756	TCC CTT TCA ACT CTA TCT AGA AAC AAG TAT GTC CGT CCC GAG TTT GTG GAT GAC TGT S L S T L S R N K N Y V R P E F V D D C	2424 775

FIG.4D

2425	GAA CCA GTT GAG ATA AAC ATA CAG TCT GGT CGT CAT CCT GTA CTG GAG ACT ATA TTA CAA	2484
776	E P V E I N Q S G R H P V L E T I L Q	795
2485	GAT AAC TTC GTC CCA AAT GAC ACA ATT TTG CAT GCA GAA GGG GAA TAT TGC CAA ATT ATC	2544
796	D N F V P N D T I L H A E G E Y C Q I I	815
2545	ACC GGA CCT AAC ATG GGA GGA AAG AGC TGC TAT ATC CGT CAA GTT GCT TTA ATT TCC ATA	2604
816	T G P N M G G K S C Y I R Q V A L I S I	835
2605	ATG GCT CAG GTT GGT TCC TTT GTA CCA GCG TCA TTC GCC AAG CTG CAC GTG CTT GAT GGT	2664
836	M A Q V G S F V P A S F A K L H V L D G	855
2665	GTT TTC ACT CGG ATG GGT GCT TCA GAC AGT ATC CAG CAT GGC AGA AGT ACC TTT CTA GAA	2724
856	V F T R M G A S D S I Q H G R S T F L E	875
2725	GAA TTA AGT GAA GCG TCA CAC ATA AGA ACC TGT TCT CGT CGT TCT GTT ATA TTA GAA	2784
876	E L S E A S H I R T C S S R S L V I L	985
2785	GAT GAG CTT GGA AGA GGC ACT AGC ACA CAC GAC GGT GTA GCC ATT GCC TAT GCA ACA TTA	2844
896	D E L G R G T S T H D G V A I A Y A T L	915
2845	CAG CAT CTC CTA GCA GAA AAG AGA TGT TTG GTT CTT GTC ACG CAT TAC CCT GAA ATA	2904
916	Q H L L A E K R L V L F V T H Y P E I	935
2905	GCT GAG ATC AGT AAC GGA TTC CCA GGT TCT GTT GGG ACA TAC CAT GTC TCG TAT CTG ACA	2964
936	A E I S N G F P G S V G T Y H V S Y L T	955
2965	TTG CAG AAG GAT AAA GGC AGT TAT GAT CAT GAT GAT GTG ACC TAC CTA TAT AAG CTT GTG	3024
956	L Q K D V D H S Y L D V T Y L K L V	975

FIG. 4E